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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,368	07/05/2006	Mathias Wendt	DE 040014	2478
24737	7590	09/06/2007	EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			ROMAN, LUIS ENRIQUE	
P.O. BOX 3001			ART UNIT	PAPER NUMBER
BRIARCLIFF MANOR, NY 10510			2836	
MAIL DATE		DELIVERY MODE		
09/06/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/585,368	WENDT ET AL.
	Examiner	Art Unit
	Luis Roman	2836

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_\_.
- 2a) This action is FINAL.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-10 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 05 July 2006 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 07/05/06
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) Notice of Informal Patent Application
- 6) Other: \_\_\_\_\_

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –  
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claims 1-2 & 8-10** are rejected under 35 U.S.C. 102(b) as being anticipated by Jepsen et al. (US Patent Application Publication 2005/0275386).

Regarding claims 1 & 10 (a person of the ordinary skill will understand a method that is intrinsically described by the functioning of the apparatus) Jepsen et al. discloses a system/method (Fig. 1) comprising: a plurality of decentralized power generating units (FC<30...80V->, PV<100...350V->, PV <200...500V-> & 48V-), a plurality of DC/DC converters (A's), each of said DC/DC converters being connected to another one of said power generating units for converting a current provided by said power generating units; a DC bus to which each of said DC/DC converters is coupled for feeding a respectively converted current into said DC bus (3); and at least one power receiving component connected to said DC bus for retrieving current from said DC bus (B), which power receiving component is physically separated from said DC/DC converters.

Regarding claim 2 Jepsen et al. further discloses wherein each of said DC/DC converters is adapted to operate autonomously and to ensure a predetermined voltage on said DC bus (Paragraph [0004]).

Regarding claim 8 Jepsen et al. further discloses wherein said power receiving component is an inverter arranged to convert a direct current retrieved from said DC bus into an alternating current and to feed said alternating current into an alternating current power supply system (Fig. 2 element B <DC/AC>).

Regarding claim 9 Jepsen et al. further discloses wherein each of said power generating units comprises at least one photovoltaic module (Fig. 2 consider among the 4 DC/DC the two in the center which are PV<photovoltaic power generating units>).

10. Method of operating a decentralized power generation system, which system comprises a plurality of decentralized power generating units, a plurality of DC/DC converters, a DC bus and at least one power receiving component, which is physically separated from said DC/DC converters, said method comprising: generating a current by means of said plurality of power generating units; converting the current provided by each of said power generating units by means of a respective DC/DC converter feeding said converted currents into said DC bus; and providing current from said DC bus to said at least one power receiving component.

#### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

**Claims 3** is rejected under 35 U.S.C. §103(a) as being unpatentable over Jepsen et al. (US Patent Application Publication 2005/0275386)

Regarding claim 3 Jepsen et al. discloses the claimed invention except for being silent about the location of the power generators and the DC/DC converters. It would have been obvious to one having ordinary skills in the art at the time the invention was made to have the circuitry of the DC/DC converters mechanically coupled or in the same housing/device that comprises the power generators to make for example easier inspection/maintenance/repair of the entire device, since it has been held that rearranging parts of an invention involves only routine skills in the art. *In re Japikse*, 86 USPQ 70.

**Claims 4-5** are rejected under 35 U.S.C. §103(a) as being unpatentable over Jepsen et al. (US Patent Application Publication 2005/0275386) in view of Ostojic (US 6771052).

Regarding claim 4 Jepsen et al. discloses the system of claim 1 and a microcontroller on the power-receiving component (Fig. 1 element B,  $\mu$ C) but does not specifically disclose wherein the  $\mu$ C is adapted to survey a voltage on said DC bus and to reduce the power retrieved from said DC bus when the voltage on said DC bus is detected to be decreasing.

Ostojic teaches a multiple output DC-DC power supply with a  $\mu$ C programmed to monitor the voltage of a bus and react accordingly in the presence of a fault, which may be reduction of the power in the bus due to failure of one of the converters (Col. 7 line 63 to Col. 8 line 18).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Jepsen et al. device with the Ostojic teachings because it increases the protection level of the entire system.

Regarding claim 5 J Ostojic discloses the  $\mu$ C able to ramp-up and ramp-down the DC-DC converters besides controlling the sequence for turning on (Col. 6 lines 48-62).

**Claims 6-7** are rejected under 35 U.S.C. §103(a) as being unpatentable over Jepsen et al. (US Patent Application Publication 2005/0275386) in view of Ostojic (US 6771052) and Najemy (US 5809256).

Regarding claims 6-7 Jepsen et al. in view of Ostojic discloses the system of claim 5 but does neither specifically disclose a plug connection for electrically connecting a respective DC/DC converter in common to the bus and via the control line to the power-receiving component nor at least one plug connection is adapted to electrically connect a respective DC/DC converter to the DC bus before connecting the DC/DC converter via the control line to the at least one power receiving component and to interrupt the connection between the DC/DC converter via the control line to the at least one power receiving component before disconnecting the DC/DC converter from the DC bus.

Najemy discloses a power switching which has a connector with pins for the power and data, wherein the pins for power are longer than the pins for the data (Abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Jepsen et al. in view of Ostojic device with the Najemy teachings because the staggering pins provide insertion/removal of the connector while the apparatus is working without producing spikes surges on the on the power bus (Col. 2 lines 33-46).

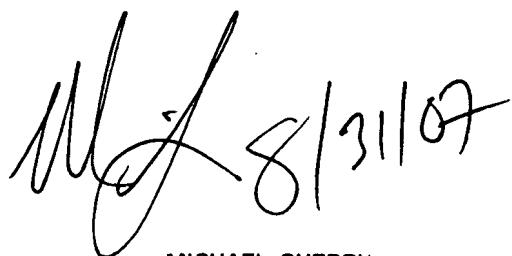
***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luis E. Román whose telephone number is (571) 272-5527. The examiner can normally be reached on Mon – Fri from 7:15 AM to 3:45 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300. Information regarding the status of an application may be obtained from Patent Application Information Retrieval (PAIR) system.

Status information for unpublished applications is available through private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

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Art Unit 2836

LR/082707



8/31/07

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